

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: January 7, 2002, 15:49:07 ; Search time 101.88 seconds
(without alignments) 41.123 Million cell updates/sec

Title: US-08-569-749-5

Perfect score: 307
Sequence: 1 CELYRMSTYSTFPAGVPVSE.....KKKCCGGLMDNMKLGDSP 55

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 219241 seqs, 76174552 residues

Total number of hits satisfying chosen parameters: 219241

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 40 summaries

Database :
1: PIR1:*
2: PIR2:*
3: PIR3:*
4: PIR4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	307	100.0	618	2	S68450 apoptosic inhibito
2	301	98.0	604	2	S68449 apoptosic inhibito
3	159	51.8	497	2	S69544 apoptosic inhibito
4	140	45.6	358	2	JCS964 apoptosic inhibito
5	132	43.0	268	2	T10304 inhibitor of apopt
6	132	43.0	268	2	A53989 apoptosic-inhibiti
7	125	40.7	232	2	A55478 neuronal apoptosic
8	122	39.7	1447	2	T42628 neuronal apoptosic
9	119	38.8	208	2	T03183 probable apoptosic
10	117	38.1	298	3	JC7568 kidney inhibitor o
11	103.5	33.7	275	2	A45679 inhibitor-of-apopt
12	103	33.6	150	2	T28409 ORF MSV248 probabl
13	102	33.2	496	2	S68452 apoptosic inhibito
14	102	33.2	497	2	S69545 apoptosic inhibito
15	93	30.3	275	2	T10310 apoptosic-inhibiti
16	86.5	28.2	292	2	T41772 IAP1 orf72 - Bomby
17	83.5	27.2	286	2	D36828 orf13 protein - Au
18	82	26.7	155	2	T30489 apoptosic inhibito
19	72.5	23.6	997	2	T45523 cut17 protein - fl
20	71.5	23.3	4845	2	T31067 BIR repeat contain
21	65.5	21.3	324	2	T130427 ORF MSV242 probabl
22	61	19.9	329	2	T28403 ORF MSV242 probabl
23	60	19.5	1401	2	T17452 Werner syndrome pr
24	60	19.4	1401	2	T30247 Werner syndrome pr
25	59.5	19.2	337	2	T27615 hypothetical prote
26	58	18.9	733	2	T04070 hypothetical prote
27	57.5	18.7	288	2	B72272 liron-sulfur cluste
28	57.5	18.7	616	2	A55796 ecarin precursor -
29	57	18.6	187	2	F86029 3-methyladenine DN

30	57	18.6	707	2	T40070 origin recognition
31	57	18.6	1930	2	F86200 protein P12K11.17
32	56	18.2	249	2	H72858 apoptosic inhibito
33	55	17.9	249	2	T41814 IAP2 orf71 - Bomby
34	55	17.9	932	2	H86325 hypothetical prote
35	55	17.9	1435	2	T01075 hypothetical prote
36	54.5	17.8	155	2	T37471 polyprotein - hepa
37	54.5	17.8	410	2	T49266 apoptosic inhibito
38	54.5	17.8	516	2	S40966 hypothetical prote
39	54.5	17.8	954	2	S57108 hypothetical prote
40	54.5	17.8	1192	2	G70513 5-methyltetrahydro
41	54	17.6	201	2	B70616 hypothetical prote
42	53.5	17.4	823	2	S18968 cytolecstic precurs
43	53.5	17.4	949	2	E71940 translation initia
44	53	17.3	355	2	B64445 polyferredoxin 4x2
45	52	16.9	264	2	PC7055 cell division prot

ALIGNMENTS

RESULT 1
S68450
apoptosic inhibitor hlap-2 - human
C:Species: Homo sapiens (man)
C:Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 21-Jul-2000
C:Accession: S68450
R:Liston, P.; Roy, N.; Tamai, K.; Lefebvre, C.; Baird, S.; Cherton-Horvat, G.; Faraha
Nature 379, 349-353, 1996
A:Title: Suppression of apoptosis in mammalian cells by NAIP and a related family of
A:Reference number: A58182; MUID:96149249
A:Accession: S68450
A>Status: nucleic acid sequence not shown
A:Molecule type: mRNA
A:Residues: 1-618 <LIS>
A:Cross-references: EMBL:U45879; NID:91184317; PIDN:AAC50372.1; PID:91184318
A:Function:
A:Description: Apoptotic suppressor
C:Superfamily: RING finger homology
C:Keywords: apoptosis; zinc finger
F:567-611/Domain: RING finger homology <RNG>

Query Match 100.0%; Score 307; DB 2; Length 618;
Best Local Similarity 100.0%; Pred. No. 1.6e-31;
Matches 55; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 CELYRMSTYSTFPAGVPVSESLARAGFYTGVDKVKCCGGLMDNMKLGDSP 55
DB 45 CELYRMSTYSTFPAGVPVSESLARAGFYTGVDKVKCCGGLMDNMKLGDSP 99
RESULT 2
S68449
apoptosic inhibitor hlap-1 - human
C:Species: Homo sapiens (man)
C:Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 21-Jul-2000
C:Accession: S68449
R:Liston, P.; Roy, N.; Tamai, K.; Lefebvre, C.; Baird, S.; Cherton-Horvat, G.; Faraha
Nature 379, 349-353, 1996
A:Title: Suppression of apoptosis in mammalian cells by NAIP and a related family of
A:Reference number: A58182; MUID:96149249
A:Accession: S68449
A:Molecule type: mRNA
A:Residues: 1-604 <LIS>
A:Cross-references: EMBL:U45878; NID:91184315; PIDN:AAC50371.1; PID:91184316
A:Function:
A:Description: Apoptotic suppressor
C:Superfamily: RING finger homology
C:Keywords: apoptosis; zinc finger
F:553-597/Domain: RING finger homology <RNG>

Cell 80, 167-178, 1995
 A:Title: The gene for neuronal apoptosis inhibitory protein is partially deleted in Ind
 A:Reference number: A55478; MUID:95112344
 A:Accession: A55478
 A:Molecule type: mRNA
 A:Residues: 1-1232 <ROY>
 A:Cross-references: GB:U19251
 C:Genetics:
 A:Gene: GDB:SMAE; SMA
 A:Cross-references: GDB:120378; OMIM:600354; OMIM:253300
 A:Map position: 5q12.2-5q13
 C:Keywords: apoptosis; ATP; glycoprotein; nucleotide binding; P-loop; transmembrane prot
 F:470-477/Region: transmembrane #status predicted <TM1>
 F:470-477/Region: nucleotide-binding motif A (P-loop)
 F:476-496/Domain: transmembrane #status predicted <TM2>
 F:476/Binding site: ATP (Lys) #status predicted
 F:618,632,823,923,1035/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 40.7%; Score 125; DB 2; Length 1232;
 Best Local Similarity 40.7%; Pred. No. 7.5e-08;
 Matches 22; Conservative 11; Mismatches 21; Indels 0; Gaps 0;

OY 2 ELYRMSTYTFPAGVPVSESLARAGFYTGVDKVCFCGGLMDNMKLGDSF 55
 DB 278 EELRLDSFDMWRPESAVGVALAKAGLFTYTKIDIVQCFSCGGLKEMKQESDDP 331

RESULT 8
 T42628
 neuronal apoptosis inhibitory protein 2 - mouse
 C:Species: Mus musculus (house mouse)
 C:Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 11-Jan-2000
 C:Accession: T42628
 R:Staraghi, Z.; Diez, E.; Gros, P.; Mackenzie, A.
 Mamm. Genome 10, 761-763, 1999
 A:Title: CDNA cloning and the 5'genomic organization of Naip2, a candidate gene for mur
 A:Reference number: 222179; MUID:99315342
 A:Accession: T42628
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-1447 <VAR>
 A:Cross-references: EMBL:AF102871; NID:g3860228; PID:g3860229; PIDN:AAC73002.1
 C:Genetics:
 A:Gene: Naip2

Query Match 39.7%; Score 122; DB 2; Length 1447;
 Best Local Similarity 40.7%; Pred. No. 2.1e-07;
 Matches 22; Conservative 10; Mismatches 22; Indels 0; Gaps 0;

OY 2 ELYRMSTYTFPAGVPVSESLARAGFYTGVDKVCFCGGLMDNMKLGDSF 55
 DB 278 EELRLDSFDMWRPESAVGVALAKAGLFTYTKIDIVQCFSCGGLKEMKQESDDP 331

RESULT 9
 T03183
 probable apoptosis inhibitor - Chilo iridescent virus
 C:Species: Chilo iridescent virus
 C:Date: 24-Mar-1999 #sequence_revision 24-Mar-1999 #text_change 02-Sep-2000
 C:Accession: T03183
 R:Barh, O.; Tildone, C.A.; Darai, G.
 Virus Genes 15, 235-245, 1997
 A:Title: The DNA sequence of Chilo iridescent virus between the genome coordinates 0.101
 A:Reference number: 214834; MUID:98141693
 A:Accession: T03183
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-208 <BA>
 A:Cross-references: EMBL:AF003534; NID:g2738385; PIDN:AAB94481.1; PID:g2738454
 C:Superfamily: RING finger homology
 F:159-202/Domain: RING finger homology <RRN>

Query Match 38.8%; Score 119; DB 2; Length 208;
 Best Local Similarity 39.2%; Pred. No. 8.1e-08;
 Matches 20; Conservative 12; Mismatches 19; Indels 0; Gaps 0;

OY 5 RMSTYTFPAGVPVSESLARAGFYTGVDKVCFCGGLMDNMKLGDSF 55
 DB 40 RLNSFQWNPITQLPSKEDQLSHAGFYTLNIGDYOQCFYCDLKEKMRSDNP 90

RESULT 10
 JC7568
 kidney inhibitor of apoptosis protein - human
 C:Species: Homo sapiens (man)
 C:Date: 31-Mar-2001 #sequence_revision 31-Mar-2001 #text_change 31-Mar-2001
 C:Accession: JC7568
 R:Lin, J.H.; Deng, G.; Huang, Q.; Morser, J.
 Biochem. Biophys. Res. Commun. 279, 820-831, 2000
 A:Title: KIAF, a novel member of the inhibitor of apoptosis protein family.
 A:Reference number: JC7568; MUID: 21092523
 A:Accession: JC7568
 A:Contents: Fetal kidney
 A:Molecule type: mRNA
 A:Residues: 1-298 <LIN>
 A:Comment: This protein, a new member of the inhibitor of apoptosis protein family, p
 C:Genetics:
 A:Gene: KIAF
 A:Map position: 20q13.3
 C:Keywords: apoptosis

Query Match 38.1%; Score 117; DB 3; Length 298;
 Best Local Similarity 42.6%; Pred. No. 2.1e-07;
 Matches 23; Conservative 9; Mismatches 22; Indels 0; Gaps 0;

OY 2 ELYRMSTYTFPAGVPVSESLARAGFYTGVDKVCFCGGLMDNMKLGDSF 55
 DB 87 EELRLDSFDMWRPESAVGVALAKAGLFTYTKIDIVQCFSCGGLKEMKQESDDP 140

RESULT 11
 A45679
 inhibitor-of-apoptosis polypeptide (IAP) - Cydia pomonella granulosis virus CpGV
 C:Species: Cydia pomonella granulosis virus CpGV
 C:Date: 21-Sep-1993 #sequence_revision 25-Apr-1997 #text_change 15-Sep-2000
 C:Accession: A45679
 R:Crook, N.E.; Clem, R.J.; Miller, L.K.
 J. Virol. 67, 2168-2174, 1993
 A:Title: An apoptosis-inhibiting baculovirus gene with a zinc finger-like motif.
 A:Reference number: A45679; MUID:93188168
 A:Accession: A45679
 A:Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-275 <CRO>
 A:Cross-references: GB:U05494; NID:g289583; PIDN:AAA43835.1; PID:g289584
 A:Note: sequence extracted from NCBI backbone (NCBIN:127014, NCBI:P:127015)
 C:Superfamily: viral apoptosis inhibitor IAP; RING finger homology

Query Match 33.7%; Score 103.5; DB 2; Length 275;
 Best Local Similarity 35.2%; Pred. No. 1e-05;
 Matches 19; Conservative 14; Mismatches 20; Indels 1; Gaps 1;

OY 2 ELYRMSTYTFPAGVPVSESLARAGFYTGVDKVCFCGGLMDNMKLGDSF 55
 DB 7 EELRLDSFDMWRPESAVGVALAKAGLFTYTKIDIVQCFSCGGLKEMKQESDDP 59

RESULT 12
 T28409
 ORF MSV248 probable inhibitor of apoptosis protein (IAP) - Melanoplus sanguinipes ent

R. Duckett, C.S.; Nava, V.E.; Gedrich, R.W.; Clem, R.J.; van Dongen, J.L.; Gilfillan, M.C.

Job time: 702 sec

Search completed: January 7, 2002, 15:49:08
Job time: 702 sec

